## **Cosmic Magnetism in Voids and Filaments**



Contribution ID: 73

Type: not specified

## Magnetic amplification at filaments knots in the distant Universe

Thursday, 26 January 2023 14:00 (20 minutes)

Mpc-scale diffuse radio emission, known as radio halos, are the best evidence of accelerated particles and magnetic fields in galaxy clusters. In the last decades, new low-frequency arrays have sensibly increased the number of clusters hosting diffuse radio emission, reaching also the poorly explored high-redshift regime. In this talk, I will present the results on LOFAR observations of distant clusters (z>0.6), and I will discuss the implication on the evolution of large-scale magnetic fields, and on particle acceleration.

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Session Classification: Thursday